

CLAIMS

1. A fixture which is intended to be screwed firmly into bone tissue and which includes a generally cylindrical anchoring portion (1) that is provided with an external screw thread (3) which anchoring portion has a cavity (5) which opens out at the insertion end (4) of said anchoring portion, and a number of through-penetrating slots (9) extending from said insertion end (4), wherein each slot (9) connects the cavity (5) with the outside of the anchoring portion (1), and wherein each slot (9) is defined by a leading slot wall (13) and a trailing slot wall (12) where said leading and trailing slot walls relate to the direction of rotation (A) defined by the screw thread (3) when screwing in the fixture, **characterised** in that at least the radially outermost part of the trailing slot wall (12) defines an angle (α) with the radial direction and slopes obliquely forwardly from within and outwards in said direction of rotation (A).

2. A fixture according to Claim 1, **characterised** in that the whole of the trailing slot wall (12) defines the same angle (α).

3. A fixture according to Claim 2, **characterised** in that the leading slot wall (13) also slopes obliquely forwards from within and outwards in said direction of rotation (A).

4. A fixture according to Claim 3, **characterised** in that the slot walls (12, 13) are parallel with one another.

5. A fixture according to any one of Claims 1-4, **characterised** in that the angle (α) is 20°-40°, preferably 27°-33° at the radially outer end of the trailing slot wall (12).

6. A fixture according to any one of Claims 1-5, **characterised** in that the slots (9) are 3-10 in number, preferably 5-7.

7. A fixture according to any one of Claims 1-6, **characterised** in that the cavity (5) is circular in cross-section and widens conically in a direction towards said insertion end (4).

5 8. A fixture according to any one of Claims 1-7, **characterised** in that the slot width at the radially outer end of said slot (9) corresponds to 15-35% of the peripheral distance between two slots on the outside of the fixture.

9. A fixture according to any one of Claims 1-8, **characterised** in that the
10 fixture is made of titanium.

10. The use of a fixture according to any one of Claims 1-9 for anchoring a prosthesis in bone tissue.
